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NOTICE OF ALLOWANCE AND FEE(S) DUE

22204

7590

08/09/2010

NIXON PEABODY, LLP 401 9TH STREET, NW SUITE 900 WASHINGTON, DC 20004-2128 EXAMINER

MOORE, KARLA A

ART UNIT PAPER NUMBER

1716

DATE MAILED: 08/09/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772.267	02/06/2004	Shunpei Yamazaki	740756-2708	4444

TITLE OF INVENTION: SEMICONDUCTOR MANUFACTURING DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/09/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
22204	7590 08/09	/2010					of Mailing or Transm	nission
NIXON PEAB	·			I here	eby certify that this	Fee(s)	Transmittal is being	deposited with the United
401 9TH STREE	ET, NW			State	s Postal Service wit essed to the Mail S	th suffi Stop 1:	icient postage for first SSUE FEE address a	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
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WASHINGTON	N, DC 20004-2128							(Depositor's name)
				_				(Signature)
	1				1			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN		A	ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/772,267	02/06/2004		Shunpei Yamazak	i		7	40756-2708	4444
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MOORE, I	KARLA A	1716	118-715000					
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PLEASE NOTE: Unl recordation as set fort	less an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee pletion of this form is NO	data will appear on th T a substitute for filing	he pa	tent. If an assignee	e is ide	entified below, the do	cument has been filed for
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Publication Fee (No small entity discount permitted) Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
Advance Order -	# of Copies		overpayment, to D	reby Depos	authorized to charge it Account Number	- me re	equired fee(s), any defi enclose an	extra copy of this form).
_ ~ .	tus (from status indicated as SMALL ENTITY statu	,	D.b. Applicant is no	Jana	or claiming SMALI	ENT	ITY status. See 37 CF.	P 1 27(a)(2)
NOTE: The 1ssue Fee an	d Publication Fee (if requ	uired) will not be accepted	d from anyone other th					assignee or other party in
nterest as shown by the i	records of the United Sta	tes Patent and Trademark	Office.					
Authorized Signature					Date			
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his collection of inform n application. Confiden ubmitting the completed nis form and/or suggesti Sox 1450, Alexandria, V Nexandria. Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (on is required to obtain 1.14. This collection is depending upon the i e Chief Information O COMPLETED FORM	or re s esti ndivi fficer S TO	etain a benefit by the mated to take 12 mi dual case. Any com r, U.S. Patent and To THIS ADDRESS.	e public inutes iments radema SEND	c which is to file (and to complete, including on the amount of tim ark Office, U.S. Depat TO: Commissioner fo	by the USPTO to process) gathering, preparing, and e you require to complete timent of Commerce, P.O. or Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/772,267	02/06/2004	Shunpei Yamazaki	740756-2708	4444	
22204 75	590 08/09/2010		EXAM	IINER	
NIXON PEABO	DY, LLP	MOORE, I	KARLA A		
401 9TH STREET, NW			ART UNIT	PAPER NUMBER	
SUITE 900 WASHINGTON, DC 20004-2128			1716 DATE MAILED; 08/09/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/772,267	YAMAZAKI, SHUNPEI		
Notice of Allowability	Examiner	Art Unit		
	KARLA MOORE	1716		
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to 3 and MPEP 1308.	plication. If not included will be mailed in due course. THIS		
2. X The allowed claim(s) is/are 1,3,4,9-13,19-22,29-31,33,34,3				
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	nder 35 U.S.C. § 119(a)-(d) or (f). be been received. be been received in Application No			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements		
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 0710 4. ☐ Examiner's Comment Regarding Requirement for Deposit	 5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amenda 8. ☒ Examiner's Stateme 	(PTO-413), te		
of Biological Material /Karla Moore/	9.			
Primary Examiner, Art Unit 1716				

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1, 3-4, 9-13, 19-22, 29-31, 33-34, 37-38 and 40-60 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or fairly suggest a semiconductor manufacturing apparatus comprising: a plasma generating device capable of generating a plasma; a first chamber for performing a plasma treatment on a first part of an object by the plasma therein under atmospheric pressure or approximate atmospheric pressure; a rail for sliding the plasma generating device, the rail provided in the first chamber; and an inkjet device capable of applying a droplet to a second part of the object simultaneously with performing the plasma treatment, wherein the plasma generating device is provided in the first chamber, wherein the ink-jet device is provided in a second chamber; and wherein the object is level transferred (i.e. capable of being transferred horizontally) in the first chamber along a first direction and the plasma generating device is moved in the first chamber along the rail and along a second direction intersecting with the first direction an in a direction parallel to a side of the object.
- 3. Further, no other prior art was located that fairly suggested the claimed invention in whole or in part, along with the requisite motivation for combination, to anticipate or render the claimed invention obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/772,267 Page 3

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KARLA MOORE whose telephone number is (571)272-1440. The examiner can normally be reached on Monday-Friday, 9:00 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571.272.1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Karla Moore/

Primary Examiner, Art Unit 1716